CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/237a/CEMENT/2016-17 Date: 06.01.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of Class Rooms at Kenchenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/AEE/Yelahanka/PR/283/2012-13 Dated: 30.03.2013
* Sample ID	:	Cement
Sample Received on	:	04.01.2017
Period of Testing	:	04.01.2017 to 06.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/237a/SAND-Gradation/2016-17 06.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of Class Rooms at Kenchenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/AEE/Yelahanka/PR/283/2012-13 Dated: 30.03.2013
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	04.01.2017
Date of Testing	:	06.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.10	90-100	90-100	90-100	95-100
2.36	75.90	60-95	75-100	85-100	95-100
1.18	55.60	30-70	55-90	75-100	90-100
600 Micron	27.80	15-34	35-59	60-79	80-100
300 Micron	12.30	5-20	8-30	12-40	15-50
150 Micron	3.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/237a/Bricks/2016-17 09.01.2017

TEST REPORT ON WATER ABSORPTION OF BRICKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of Class Rooms at Kenchenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/AEE/Yelahanka/PR/283/2012-13 Dated: 30.03.2013
* Sample ID	:	Bricks
Technical Reference	:	IS: 3495(Part-2)- 1992 (RA-2011)
Sample Received on	:	04.01.2017
Date of Testing	:	09.01.2017

Sl.No	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorption as per IS: 1077:1995 Clause 7.2)
1	220x100x75	2952	3288	11.38	11.39	Not exceeding 20%
2	220x100x75	2949	3297	11.80		
3	220x100x75	2963	3293	11.14		
4	220x100x75	2936	3280	11.72		
5	220x100x75	2975	3299	10.89		

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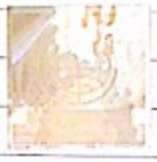
Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/237a/Bricks/2016-17

09.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF BRICKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of Class Rooms at Kenchenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/AEE/Yelahanka/PR/283/2012-13 Dated: 30.03.2013
* Sample ID	:	Bricks
Technical Reference	:	IS : 3495 (Part-1) - 1992 (RA-2011)
Sample Received on	:	04.01.2017
Date of Testing	:	09.01.2017



Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1995 Table 1)
1	220x100x75	3438.00	123.6	5.62	5.52	5.0
2	220x100x75	3415.00	121.5	5.52		
3	220x100x75	3537.00	122.9	5.59		
4	220x100x75	3452.00	120.4	5.47		
5	220x100x75	3445.00	119.2	5.42		

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Job No : CTCE/BBMP/W.No.02/KRIDL/CSR-01/237a/Cube/2016-17

10.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of Class Rooms at Kenchenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/AEE/Yelahanka/PR/283/2012-13 Dated: 30.03.2013
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2017	10.02.2017	8.269	489.3	21.75
2	13.01.2017	10.02.2017	8.374	495.2	22.01
3	13.01.2017	10.02.2017	8.452	512.7	22.79

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